

## THE CAROLINA BAT

## Flittermouse and His Family and Relatives.

## AN ANIMAL WITHOUT ANCESTORS.

The Bat had no prototype, but has been a kind of a creature of the imagination. The Great Winged Animals of Ages Past Were Known to the Bats. The Five Families of Bats—The Vampire, the Fruit-eater, the Fish-eater, the Insect-eater, and the Old English Term, Flittermouse.

This little brown bat has been selected as the type of the kind found in both the Old World and the New. It has, indeed, a very wide range, being found in America from Lake Winnipeg to Guatemala, while in the old world it extends from England to Siberia and to India and the Cameroons Mountains of Africa. It is common in all the Atlantic States and as far as the West Indies. It is the "Natural History of New York." No other kind of bat whatever is found on both sides of the Atlantic.

"But who cares for a bat?" may be the exclamation of more than one of my readers. I am not at all sure that the bat is the most common of small animals as the bats and insect-eaters are, animals so very rarely seen by day, all of which appear at the first glance so much alike, may seem to most persons to be objects of little interest.



CAROLINA BAT.

I must then ask to be taken on trust when I affirm that a fact I hope to make evident in this present article. And the best way to make this evident will be to enable my readers to answer intelligently the simple question, "What is a bat?"

No one who has ever taken a bat in his hand has noticed its teeth. Its ears, and its teeth are small, but that it is a little beast. That the ancient Germans as well as our English-speaking ancestors saw the truth so far evident from the names they respectively bestowed on it—from the German name, *Nattermann*, and the old English term, *Flittermouse*.

Nevertheless bats were very often supposed to be devils. Such seems to have been the opinion of the Jews, and the "bird of darkness" is placed in Deut. xiv. 18, among the unclean ones forbidden as food:

And the stork, and the heron after her kind, and the hawk and the bat.

Aristotle, though he placed the bats among flying animals, and therefore among birds, recognized distinctly the difference in their organization, and the same thing may be affirmed of Pliny. But in spite of this, and although Albertus Magnus, in the thirteenth century, was acquainted fully with the true nature of bats as being beasts, as also with their habit of hibernating during the cold season, we find that instead of progress in knowledge in knowledge took place after the middle ages.



FLYING FOX.

Thus Belon in 1557, in his "Histoire de la Nature des Oiseaux," includes bats with his birds. At the same time he was not unacquainted with the mode of their reproduction, as the following verses prove:

La bonte chere ne se donne de nuit  
Qu'il ne soit de nuit, ainsi que petite enfant  
Lequel du lait de son sein lacteux  
En petit corps grandit vertueusement.

Again, almost a hundred years on—in 1645—Aldrovandus expressed his conviction that bats were rather birds than beasts, and this in spite of his careful study of them, as he was beginning to distinguish different species one from another.

About a quarter of a century afterward, Ray assigned them their true place, which they have kept ever since.

But though the bat is a beast, it is a very peculiar one, and is essentially an animal of its kind. All its structure is modified for flight, and it rarely descends to the ground.

In studying the turkey we saw how all a bird's structure is also modified for flight, but the modifications of bats and birds, though directed to the same end, are, as we shall see, very different modifications. Indeed, the bat's organization, alone of existing creatures, serves to give us a good conception of certain extinct reptiles, namely, of those ancient flying forms (pterosaurus) of the age of reptiles to which have referred several times in these articles and especially to that on the bullfinch. The real affinities will serve to show how little more external aspect can be trusted as a guide to fundamental relationships. The bat, as I have just said, is essentially an animal formed



COMMON BAT—AMERICA.

for aerial life above the surface of the ground. The mole is an animal formed for subterranean life beneath the surface, and the mole rarely ascends to the surface as the bat descends to it, and all its structure is so efficiently modified for most rapid burrowing that it may be said to fly through the earth as the bat flies through the air. The bat's hand, as we shall see, attains the maximum of length and slenderness, while the mole's is at a minimum of length, but is a more powerful power. The contrast between the two animals could hardly be more complete; yet the bat and the mole share a small degree of affinity and may be said to be zoological cousins.

Now let us take a somewhat closer look at the common typical form, the Carolina bat. It has a little rounded body about two and a

half inches long, covered with a very soft fur, which Shakespeare calls "wool," when enumerating the ingredients of Macbeth's Witch's cauldron. It has a small head with very small eyes, but large ears. It has a slender body, nearly two inches long, and two pairs of limbs, extremely different both in size and structure. Its legs are of but moderate length, but disposed so singularly that the knees are bent almost backward, like our elbows.

No bats of any kind are found where neither insects nor fruit can be obtained.

Thus there are none in Iceland nor in Kermadec Land. They are found in most countries, including the small Savice Islands, southeast of the Navigator's group, being inhabited by one kind of flying fox.

None appears, however, to inhabit the islands of the Low Archipelago or in the Galapagos group, nor has any been found in St. Helena.

The great primary division to which the Carolina bat and all American and European bats belong is made up of five subordinate groups, or families, as follows: (1) The common bat family, (2) the least-nocturnal bat family, (3) the Old World blood-sucking family, (4) the oblique-nosed family, and (5) the New World blood-sucking family.

I will notice first the family of common bats, whereof more than twelve dozen different species have been already described. Though only one of these species, the Carolina bat, is common to both the Old World and the New, yet the family, as a whole, is common to both, while it ranges from 31 degrees north latitude down to Terra del Fuego.

One of the "young friends" here referred to is now the esteemed Secretary of the Royal Botanical Society of London, and he has assured me that the bat is a kind confined to the northern regions of the Old World. It is a small bat with swollen cheeks and short ears, each containing a tragus more than half as long as the ear itself.

One found asleep in a chalk cavern in England, was so wrapped up in its wings that it was found to be a well-developed tragus within the ears, and also rather larger ears.

It appears that only one or two of the bat's teeth are really bloody, and the other kinds which in silence are specially distinguished as vampires appear to be insect-eating bats.

There are about sixty to seventy species, among which the renowned vampires are included. All of them possess nose leaves, but unlike the Old World nose-leaved bats, they also have a well-developed tragus within the ears, and also rather larger ears.

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unequal in size. One of these comprises every kind of bat found in America, from the extreme north—the confines of the Arctic circle—to Cape Horn, and all those of Europe and Asia and north of Palestine.

The other groups contain only the flying foxes and their allies, of which there are about eighty species as yet known, none of which is found in America.

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awkwardness. They run over and against each other, pretending to bite, but never harming their companions of the same species, though I have seen them within a few feet of each other, and one of them was actually bitten in the same way with them. They may really be brought to eat from the hand; and my friend, Mr. James Sowerby, had one during last winter, which was very tame, and would fly to the hand of any of the young people who help up to fly toward it, and, pitching on the hand, take the fly without hesitation. If the insect were held between the lips, the bat would then settle on the young person's cheek and take the fly with great gentleness from the mouth; and so far was this familiarity carried that when either of my young friends made a humming sound with the mouth in imitation of an insect, the bat would search about the lips for the promised dainty.



RED BAT.

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cular to America, five are peculiar to the New World, while two are common to both.

These bats have no nose leaves, and the faces of some of them remind us of pug dogs.

The tail projects freely beyond the short intermembral membrane. Many of them have narrow wings and some are very naked.

The most curious form (Chiroptera) of the Malay region has a very thick skin, almost naked, while its great toe is very large and separated from the others, reminding us of those of a monkey. A curious fold of skin on the breast and sides of the body serves as a cradle for the baby. Such nursing pouches are probably absolutely necessary for the preservation of the young, which otherwise could scarcely maintain its hold on the naked body of the mother during flight.

Mr. Dobson has remarked truly that it is interesting to find these pouches developed in both the male and the female, for the presence in the former suggests the idea that where the young are born together, the male may relieve the female of one of them. That such may indeed be the case is made probable by an analogous habit which exists in some flying foxes, we shall presently see.

The fifth and sixth of the larger species of the order of the bats is that which I have distinguished as the New World blood-suckers. It is indeed confined exclusively to South and Central America, save one species which is said to extend up to Bermuda and South Carolina.

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## AS A PREVENTIVE

For Consumption and Catarrh, which originate in the poison of Scrofula, take Ayer's Sarsaparilla. The existence of this taint, in the blood, may be detected in children by glandular swellings, sore eyes, sore ears, and other indications, and unless expelled from the system, life-long suffering will be the result. The best medicine for all blood diseases is Ayer's Sarsaparilla, which is considered by physicians to be the only remedy for Scrofula deserving the name of a specific. Dr. J. W. Bosworth, of Philippi, W. Va., says: "Several years ago I prescribed Ayer's Sarsaparilla for a little girl, four years of age (member of a prominent family of this county), who was afflicted with scrofula. After only three or four bottles were used, the disease was entirely eradicated, and she is now in excellent health."

"My son—now fifteen years of age—was troubled for a long time with catarrh, in its worst form, through the effects of which his blood became poisoned. About a year ago he began using Ayer's Sarsaparilla, and is now entirely well."—D. P. Kerr, Big Spring, Ohio.

"My husband's mother was cured of scrofulous consumption by six bottles of Ayer's Sarsaparilla."—Mrs. Julia Shepard, Kendall, Mich.